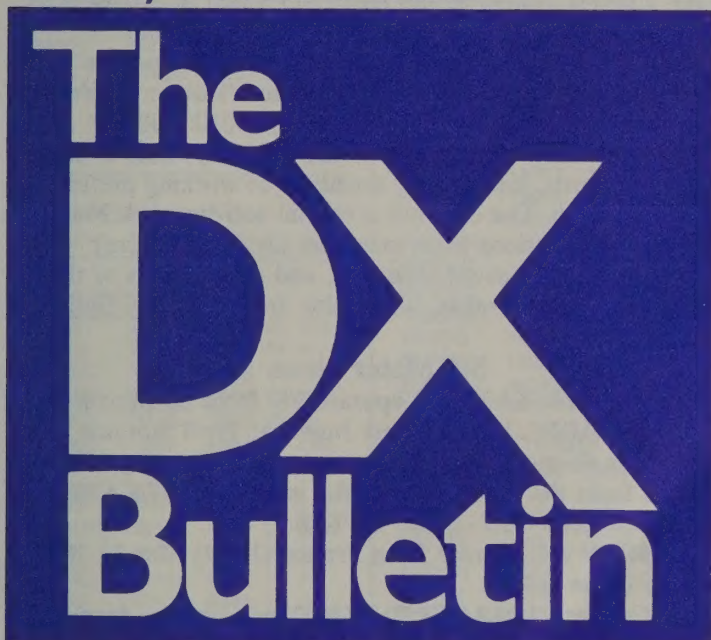


Angola - D2 Five amateurs have received permission to operate from Angola and expect to be active /D2 for two weeks, beginning about May 15. Operators are UT4UM, RT5UY, RT5UL, UT3UY, and LZ2DF. QSL route will probably be via LZ2DF. Mostly CW, 25 kHz up, listening up. Sunrise 0520Z; sunset 1655Z.

St. Peter and St. Paul Rocks - PT0S The Natal DX Group's PY0SK operation fired up on schedule. Weather permitting, they'll be on the Rocks until May 13th. As of May 6, they have been on 14195 kHz, listening 14200-215, by call areas, and 28495 kHz. Sunrise 0754Z; sunset 1956Z.

Tromelin - FR/T FR4DD says that the FR5AI/T operation has been postponed until May 28th. The scattered reports of FR5AI/T are probably Slim.

Edited by Chod Harris VP2ML



America's Premier Weekly Amateur Radio Publication

Netherland Antilles - PJ Joeke van der Velde (ex-PJ2VD) is active as PJ2/PA0VDV until June 16, CW only. Try 3505, 7005, 10102, 14025, 18070, 21025, 24892, and 28025 kHz. QSL home call: Delleburen 1, 8421 RP Oldeberkoop, Netherlands (1991 *Callbook*.)

Reserve Your Island - WPX CW

- OY/N6HR will be active May 22-27, including the WPX CW test May 25-26. QSL home call.
- ZB2X is a multi-single entry in the test, operated by OH0XX and OH2KI. QSL via Jorma Saloranta OH2KI, Karhutie 39, 00800 Helsinki, Finland.
- AG9A/KH2 will be a multi-single effort from Guam, with WO0G as second op. They'll be there May 21-28. Before that, they'll be active as KC6XX (SSB) and KC6KW (CW) May 15-21, mostly CW, emphasizing 160 (1826 kHz) and the new bands. QSL SSB QSOs to WO0G; CW to AG9A.

Shortly Noted

- A51JS? No sign of Jim Smith as of May 6th, and no word on any reason for the delay. Also, his planned trip to Bangladesh may be off, due to the cyclone damage there.
- Rick KH6JEB returns to Kure /KH7 for about two weeks, beginning mid-May. He'll probably be active on 6 meters and the new bands. QSL home call.
- ZD8WD will be operated by Ken Cheetham G4RWD, starting around the end of May. QSL home call.
- 8N6ARL is a special-event station from Okinawa (AS-17), until May 27. QSL via JARL bureau. (DXNS)
- P29DX is the call of Steve G4JVG, who expects to fire up a contest-grade station soon.
- 5R8AL has returned to Madagascar, and has been reported on 20-meter CW. QSL WA4VDE.
- V51/KF7E Jim Henderson will be active about one week. He then moves on to Mozambique C9, where he will try to get on the air, concentrating on CW on the new bands.
- SY/DJ6SI and SV2ASP/a in Mt. Athos have both been accepted for DXCC credit.
- 9M2NA is Serge Bertuzzo VE3CHZ on a one-year assignment in Kuala Lumpur. He favors 28005 or 14005 kHz at 12-1500Z, and also operates RTTY on 20. QSL home call.
- Cayman Islands ZF have finally authorized use of the new bands: 30, 17, and 12 meters, effective May 6.
- DXCC Backlog: The DXCC desk finally broke through the logjam of endorsements received in September (before the \$10 fee started Oct. 1), and are making considerable progress. As of April 27, they were working on endorsements received Nov. 13, and new DXCC applications received April 12.
- Future Flashes: Another Malyj Vysotskij Island 4J is tentatively set for May 23-28; more details to come. And Romeo 3W3RR/YA0RR says he has received permission for a four-man, two-week operation from Burma XZ.
- SSB Net check-ins: 14160 kHz: UNSC/8R1 UL7FEC; 14222: H44MS KB6CC/V63; 14227: P29BT 3B8AD 3B8AJ 9M8FH S79KMB 9M8PV KB6GE/KH0 JT1CS A35KB; 14256: UD850DR 5B4ZL VP8CFM (South Orkneys) VP8CDJ (South Georgia); 21335: 5Z4BI SV2ASP/A (Mt. Athos); 28510: FT4WC.
- Islands On The Air: IG9/IK8MVH was active from (AF-19). 4K4/UA0KW and 4K4/UA0FBZ were both on Wrangel Island (AS-27); their Gerald Island operation had to be scrapped. H44MS is in the New Georgia group (OC-??), his last stop this year. SM7OHE (EU-37) has been noted on 21232 kHz at 2115Z.
- RTTY report: HF0POL in the South Shetlands hopes to get on RTTY this month. Some active stations: 7X2DS 28087 1730Z; CN8FJ 14092 2330Z; 9K2DZ 14077 ARQ 0300Z; S79PDL 21094 1515Z; 9Q5BG 28085 1600Z; 5Z4BI 21087 1900Z; ZD8VJ 21079 ARQ 2030Z.

Propagation

Forecast and Historical Data

Day Forecast	27 Days Before	55 Days Before
May 1991	Date Flux A K	Date Flux A K
10 Above Normal	04/13 249 04/08 1	03/16 257 07/09 4
11 Above Normal	04/14 268 07/09 2	03/17 250 12/12 3
12 Above Normal	04/15 267 06/08 2	03/18 276 09/09 1
13 Above Normal	04/16 268 04/09 2	03/19 262 09/14 3
14 High Normal	04/17 252 11/13 3	03/20 250 11/13 3
15 High Normal	04/18 236 13/13 3	03/21 252 18/20 3
16 High Normal	04/19 229 16/16 2	03/22 258 14/19 1
17 Above Normal	04/20 221 03/07 1	03/23 233 10/13 1
18 Above Normal	04/21 180 06/07 2	03/24 260 84/115 6
19 High Normal	04/22 166 07/10 2	03/25 237 81/92 4
20 High Normal	04/23 146 06/07 2	03/26 230 64/83 4
21 Low Normal	04/24 135 12/12 3	03/27 204 17/32 2
22 Low Normal	04/25 136 15/19 3	03/28 199 17/20 3
23 Low Normal	04/26 142 10/13 2	03/29 191 03/06 1

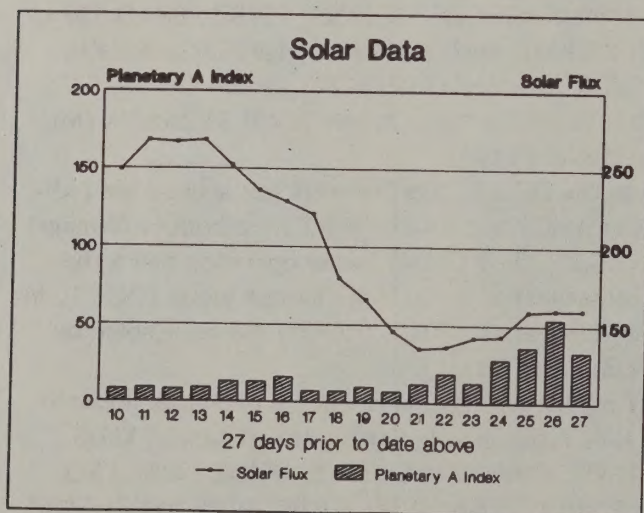
Propagation Watch

The bands have slowly recovered from the double whammy of low solar flux and high geomagnetic activity. Although signal strengths are not yet back to normal, the higher bands are showing signs of life again. 10-15 meters are once again open throughout the daylight hours, although signals on 10 are rather weak.

Another week or so of stable geomagnetic conditions will allow the ionosphere to return to normal, and provide DXers with good openings on 20-12 meters. One or more of these bands should be open to some part of the world at any hour of the day or night. The long path on 20 meters around local dawn still rewards DXers who get out of bed early. And improved conditions on the polar paths should give DXers some long-path openings on 17 and 15 meters.

Sunspot Region 6615 and returning Region 6583 both have the potential to generate significant flares. However, sunspot regions have not been remaining active for more than one solar revolution (27.5 days), so we may be spared a repeat of the disastrous conditions in late April.

Look for solar activity to peak around 250 this week, and then decline to about 150 over the next ten days. 20, 17, and 15 meters will provide the bulk of the DX, with some north-south openings on 10 and 12 meters. The low bands are hampered by absorption from high geomagnetic activity, and increasing QRN levels. Good hunting!



USSR Notes

■ Gene Walsh N2AA and John Kiesel KE7V are helping organize a joint US-USSR cruise down the Yennisey River, in Siberia. The luxury liner 'Alexander Chekov' will depart Krasnoyarsk on August 2, after a few days of touring Leningrad and Krasnoyarsk. Members of the UZØAXX radio club and US amateurs will operate an amateur station aboard ship during the 11-day cruise north of the Arctic Circle, and return to Krasnoyarsk. Along the way, tourists will be able to visit Siberian forests, hunt deer, visit the Tungus meteor site, ride a helicopter, and more. Costs range from US\$1500 to \$2400, plus round-trip airfare to Leningrad. For more information, Contact Gene at 201-382-7525, or John at 206-321-5671.

■ The PSDXA DX club now offers the 'USSR Award Directory' for 12 IRCs or US\$6. They also have available the 'QSL Bureau Callbook of the USSR,' which lists local (Oblast) QSL bureaus, for 10 IRCs or US\$5. Finally, the club sponsors the Murmansk Award. Work (hear) different stations in the Murmansk region (UA1Z, UW1Z, UZ1Z, U1Z, R1Z, RA1Z...). 1st class: Europe stations need to make 2 QSOs, others 5; 2nd class: EU 5 QSOs, others 3; 3rd class: EU 10 QSOs, others 5. No mode or band restrictions. You can work the same station on another band. Log data and 14 IRCs or US\$7 to Vladimir N. Yesin, President PSDXA, Box 10. Korosten-1, 260100 USSR.

■ The Miller DX Club in Oblast 150 (UA6L) offers a wide range of awards, for working members to working prefixes in CQ Zone 16. The club has a special activity week May 19-25 to help stations work members for some of their awards. A list of current members, and descriptions of the Miller DX Club's awards, is available from The DX Bulletin for an SASE.

Six-Meter News

■ Harry Schools KA3B will operate FS/ from St. Martin during the ARRL VHF contest June 8-9. He'll monitor the 28885 kHz six-meter liaison frequency. Also, he may operate from the Dutch side of the island, as PJ7/KA3B outside the test. Grid square is FK88.

■ F/PAØRDY will operate from France (JN14) May 11-18. QSL to home call.

■ Bob Cooper ZLØAAA/VP5D/K6EDX will operate from the Azores in June. Try 28885 and 50105 kHz. Bob can be reached on the Azores by a fax to CU1EZ: 351-96-82476.

■ OX3LX, operated by OZ1DJJ, will be active until late September, from various grids on Greenland. He'll usually be running 50 watts into a 5-element beam.

■ The 17th annual Eastern VHF/UHF/SHF conference is May 17-19, at River College, Nashua, New Hampshire. Registration at the door is \$30, with a buffet banquet on Saturday night an additional \$20. Registration is via David Knight KA1DT, 15 Oakdale Ave., Nashua NH 03062. Rooms are available at the college and nearby hotels.

■ The 1991 International 6 Meter Beacon List is now available from Harry Schools KA3B, 1606 South Newkirk St., Philadelphia PA 19145, for US\$5, postpaid. The 14-page listing includes complete information on 123 six-meter beacons. Harry also publishes the semimonthly '50 MHz DX Bulletin,' from which the above has been extracted. Cost of the bulletin is \$20 in the US.

B • A • N • D • P • A • S • S

Key to Bandpass: Callsign, frequency, UTC, day of the month, state. * = long path. P = packet.
All "portable" calls listed with country of operation first, regardless of format used on the air.

S	M	T	W	T	F	S
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25

RTTY

3X1SG	14083	2307	29	FL
7X2DS	14083	0055	24	IL
9H1ED	21094	2150	20	OH
EA9TL	21092	2030	21	OH
HA8EK	21086	1715	21	OH
SP6CYV	14087	0440	21	OH
T77T	14088	0453	20	IL
TJ1MR	14083	2132	22	IL
TY1PS	21079	2230	20	OH
UL7LR	14082	0300	17	OH
UL7MU	14090	0305	17	OH
UO5OK	14085	0430	21	OH
UQ2GC	14084	0315	17	OH
UT5RP	14084	0440	21	OH
UZ3AYR	21090	2150	20	OH
VQ9TB	21077	1815	21	OH
WP4IIV	21090	2145	20	OH
XE1FAA	14089	0445	21	OH
XE1ILW	14089	0455	21	OH
YB0QC	21087	1345	20	OH
Z21GZ	21093	1710	21	OH

160 Meters

VK4YB	1832	1250	23	WA
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75 Meters

V73AX	3798	1050	22	OH
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40 Meters

4K2OIL	7003	0420	30	OR
7X2AB	7005	2333	17	NY
9Q5BG	7059	2205	13	NS
FK8FU	7013	1108	20	WV
HF0POL	7005	0213	23	AL
PW8XX	7004	0541	1	OR

30 Meters

4K1ADQ	10105	2242	21	SC
8P9FF	10105	0300	26	SC
KG4DD	10103	0242	4	FL
LY2BR	10103	0343	15	SC
PJ8AD	10108	1214	1	CT
ZD8LII	10104	2258	22	NH

20 Meter CW

3B8CF	14036	0303	24	MI
3B8FG *	14021	1244	22	CO
3B8FQ	14009	1335	26	CA
3Z0J	14032	2323	3	FL
4K1A	14009	1524	28	MT
4K4/	14010	1348	21	WV
UA0KW				
4S7WP	14035	0018	30	CT
4S7WP *	14004	1220	28	IL
5B4/	14012	0139	27	WV
YU4OO				
5R8AL	14021	1440	2	OR
6W6JX	14034	0655	27	AZ
9V1JY	14022	1050	17	OH
9V1JY	14031	1430	23	CO
9V1WW	14027	1410	26	CA
BV2DM	14008	0800	26	CA
BV2DM	14021	1232	22	CO
EA6AAK	14015	0150	27	CA
EK9STC	14005	0002	24	SC

EL2EF	14021	1146	24	AL
ER4L	14026	0055	24	CT
EX1FAL	14006	2216	24	VA
EX2FP	14043	0209	24	WI
FO0VU	14004	0525	27	CA
FR5DD	14026	0325	24	MI
FR5DD	14011	1152	29	IL
FT4WC	14014	1155	24	AL
HP1AC	14037	0007	4	FL
HS0AC	14025	1040	17	TX
HS0E	14024	1155	12	TX
OY3QN	14026	0659	20	OH
PZ1DY	14018	0941	24	MI
RJ1J	14026	0231	24	WI
SV0DV/9	14055	0236	22	MI
SV1BZ	14033	0455	23	CA
SV2BOD	14030	2338	29	FL
TF3DX	14004	0000	4	FL
UD850AI	14015	0002	26	SC
UH0RWD	14020	2150	21	SC
UH9YWA	14029	0053	24	WI
UL7CAC	14024	0218	4	FL
UL7VV	14010	0140	30	MT
UM8MY	14010	2215	25	SC
V47EA	14002	0205	27	WV
V85FC	14023	1300	28	IL
VK6RQ	14061	0908	23	MI
VK6RU	14026	1212	29	CT
VS6BI	14007	1331	26	CA
VU2AC	14031	0025	24	CT
VU2NI	14007	1151	28	WV
VU2RJN	14026	1155	25	CA
VU2ROI *	14016	1115	17	TX
VU2TTC	14031	2300	28	CT
YL200SM	14027	2005	23	NH
YN1CC	14004	2228	29	FL
Z21HS	14026	1520	26	CA
ZD8SE	14028	0915	30	CA

20 Meter SSB

5B4AAL	14184	0315	1	OR
7Q7JH	14187	1446	21	MT
7X2DB	14200	2125	22	NY
C31SG	14215	2200	22	NY
JT1CS	14190	1434	29	CA
JT7AA	14160	0038	17	NS
JY3ZH	14251	2328	24	OH
P29EE	14205	1050	23	OH
PZ2AC	14215	0256	28	IL
TA4A	14160	0055	24	MT
UA6GAT	14223	1449	25	CA
V63JC	14165	1232	1	MN
VU2ASI *	14185	1207	26	IL
XT2BW	14203	0765	8	GA

17 Meter CW

3B8CF	18095	1955	22	SC
4K1A	18072	1940	15	SC
4K1ADQ	18071	2240	21	SC
4K2OIL	18073	1317	18	SC
4Q3R	18070	0115	19	VA
A22GH	18090	1932	22	SC
A41JV	18070	2214	21	SC
C31LL	18070	1053	27	NH
ER4L	18090	0011	24	SC
EX2FP	18090	0319	17	SC
FK8FU	18070	0343	24	SC
FO0VU	18071	0710	1	CA
HK0EHM	18087	2140	23	SC
J88AH	18080	0230	17	SC
J88AQ	18080	0130	27	NH

LY2BCE	18088	0348	24	SC
LY2BR	18070	0400	15	SC
LZ1XL	18070	0227	23	AL
OA4ZV	18085	0327	26	SC
R18BQ	18095	0410	16	SC
RL7GA	18080	0019	18	SC
SV0DV/9	18070	2139	24	SC
UC2WAZ	18090	0442	22	SC
UJ8JI	18075	0350	16	SC
UM8MBA	18075	0445	22	SC
YL200SM	18090	2022	20	SC
YQ3R	18095	0003	23	SC
YS1DRF	18090	0330	15	SC
ZC4CZ	18090	0346	16	SC
ZD8LII	18070	2332	16	SC
ZP6XDW	18069	0011	18	SC

17 Meter SSB

9V1XQ	18120	1048	21	NS
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15 Meter CW

3A2LW	21008	2036	23	NC
4K2BDU	21024	1555	15	TX
4K2OIL	21008	2238	22	NH
4K4/	21025	0138	4	FL
UA0KBZ				
4K4/	21029	0141	20	WV
UA0KW	21005	2102	23	NC
4L1QRQ	21019	1435	21	ID
4S7EF	21028	2250	24	CT
4S7WP	21029	2005	28	CT
6W6JX	21027	2302	25	CT
6W6JX	21024	2310	13	TX
7Q7LA	21034	1158	22	VA
8N6ARL	21020	0100	1	OR
9X5HG	21035	0142	3	CT
BV2DA	21011	1731	25	CO
BY4RB	21021	2323	20	ID
EA8ANG	21026	0010	23	CA
EA8BWP	21005	1037	22	VA
FR5DD	21027	0340	24	CA
GJ2FMV	21024	1440	21	ID
HK0NAF	21014	2300	28	MI
HS1AAM	21031	1835	30	CT
HZ1AB	21009	0345	24	CA
RJ1J	21019	0222	24	NC
RO5OL	21012	0345	24	CA
RV0YF	21010	0139	4	FL
ST2/	21025	2032	26	NH
PA0GAM				
ST2/F5EU	21013	0218	25	NC
TA2AO	21001	2100	21	WV
UA0OA	21010	1500	13	TX
UD850AI	21023	2358	21	VA
UD850DKW	21027	0239	23	AL
UG6GDN	21008	2343	21	VA
UH2E/	21015	0235	23	AL
UA9TZ				
UH2E/	21020	1806	21	SC
UA9TS				
UL7BX	21016	0128	19	VA
UL7TAM	21012	0050	24	CA
UM0MO	21008	0141	4	FL
UM8MAA	21023	0253	25	CA
VP2EXX	21002	1945	23	NH
YS1DRF	21003	0321	22	MI
YS1DRF	21008	1313	25	NB
ZC4CC	21029	1949	28	CT
ZD8LII	21029	1049	28	WV
ZD8LII	21024	2244	1	MN

15 Meter SSB

5Z4FO	21232	1838	14	GA
9M8PV	21230	2211	22	NY
EK0KBZ	21294	2122	23	MI
H44MS	21205	0520	4	OR
HV3SJ	21296	2003	20	GA
JX3EX	21252	1255	19	NS
LX1WH	21310	1100	17	R
OD5ZZ	21327	2030	20	GA
TA8C	21305	0100	24	CA
VQ9HW	21270	0421	20	OH
VS6WV	21296	1437	22	NB
VU2TTC	21318	1806	27	CT
XW8KPL	21245	1630	20	NB

12 Meters

3B8CF	24898	1430	14	NH
5V7DP	24950	1550	21	NS
7Q7JH	24941	1406	21	NS
7Q7MS	24980	1720	11	NS
9Q5TE	24966	1126	13	NS
A22GH	24911	1548	22	NH
A92BE	24935	2132	16	MI
AP2JZB	24937	1355	24	NY
D44BC	24956	1245	14	NS
DU4DX	24975	1611	15	NS
EH5TCD	24945	1300	15	NS
ES7FU	24910	1605	21	SC
EX0FWR	24965	1210	15	NS
GJ2LU	24895	1319	22	NH
LZ1BB	24890	1440	17	SC
OD5FY	24952	1149	21	NS
RV0YF	24900	0005	16	TX
SV0HV/9	24934	0030	20	VA
SV9ADH	24893	1426	21	WV
T77C	24920	1623	21	SC
UA2FEK	24905	1521	24	SC
UA2WJ	24908	1440	21	NH
UG6LQ	24987	1219	11	NS
UJ8KA	24968	1328	11	NS
UJ8KA	24895	1422	17	SC
YS1DRF	24897	2316	21	VA
ZP5XFB	24910	2130	21	SC

10 Meter CW

7Z1AB	28009	1320	24	NY
BV2DA	28012	0020	26	CA
EA6QK	28006	1507	18	VA
FO0VU	28014	0119	27	CT
HK0NAF	28020	1600	23	SC
J88AQ	28026	1935	23	NH
JY9SR	28033	1509	26	NH
TV9OIS	28015	1750	21	SC
UA0Y/	28010	1559	21	NS
UA9YC				
UO5ON	28012	1240	18	VA
VP2EXX	28014	0020	23	CA
YS1DRF	28013	0022	21	NH
ZD8LI	28021	1738	21	OH

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Issue 587 - May 10, 1991

Current and Future DXpeditions

(Changes and hot info in boldface.)

<u>DXCC Country</u>	<u>Prefix</u>	<u>Callsign</u>	<u>Dates</u>	<u>Issue</u>
Andorra	C3	C30EUA	May 10-20	I586
Angola	D2	UT5s	May 15-30	I587
Antigua	V2	V2/KJ4VH	May 18-20	I583
Ascension	ZD8	ZD8VJ	Jan. 14-June	I568
Banaba	T33	T33JH	May-June?	I584
Bermuda	VP9/	K1EFI	May 23-30	I586
Bhutan	A5	A51JS	May 1-15 ?	I585
Burundi	9U	9U5BZP	May ?	I584
Jersey	GJ	/PB0AFQ	May 17-24	I586
Kure Island	KH7	KH6JEB	May 15-30	I587
Madagascar	5R	5R8AL	Now	I587
Montserrat	VP2M	VP2MDH	May 20-27	I583
Mozambique	C9	/KF7E	soon?	I587
Netherland Antilles	PJ/PA0VDV		to June 16	I587
New Caledonia	FK	JAs	early May	I585
Rotuma	3D	3D2XV	Now-May 25	I584
St. Maarten	PJ	PJ1A	May 9-16	I586
St. Peter & St. Paul	PY0	SK	Now-May 13	I585
San Felix	CE0	XQ0X	Now SSB only	I563
Southern Sudan	ST0	ST0DX	Now-one year	I573
South Shetlands	4K1ADQ		Now	I583
	CE9	CE9GEW	Now	I583
Tromelin	FR/T	FR5AI/T	May 28-June	I585
Turks and Caicos	VP5	VP5VEB/C/D	late May	I586
United Arab Emirates	A61AD		May 11-17	I585
Western Kiribati	T30	T30JH	May-June	I584
Western Samoa	5W	5W1GY	June	I584

Operating Events and DX Gatherings

<u>Dates</u>	<u>Event</u>	<u>Reference:</u>
May 11-12	Volta RTTY Contest	I585
	CQ Mir Contest	I586
May 25-26	CQ WPX CW Test	<u>CQ</u>
May 31-June 1	FRG-91 Contest	<u>CQ</u>
June 15-16	All Asian SSB test	<u>CQ</u>
	Spanish RTTY Contest	<u>CQ</u>

Resident Amateurs on Regularly

<u>DXCC Country</u>	<u>Callsign</u>	<u>Freq.</u>	<u>UTC</u>
■ Andorra	C31LL	18071	1100Z
■ Antarctica	4K1A	20M CW	12-1300Z
■ Ascension Island	ZD8LII	21025	2245Z
■ Azerbaijan	UD850AI	14013	0000Z
■ Botswana	A22GH	24908	1600Z
■ China	BY4RB	21020	2325Z
■ Crete	SV0DV/9	18070	0030Z
■ Crozet Island	FT4WC	14020±	12-1300Z
■ Eastern Malaysia	9M8ST	14197	1530Z
■ Franz Josef Land	4K2OIL	18070	1300Z
■ Georgia	EX2FP	14035±	0200Z
■ India	VU2NI	14005±	1200Z
■ Liberia	EL2EF	14022	1145Z
■ Madagascar	5R8AL	14020±	1445Z
■ Mauritius	3B8CF	24898	1430Z
■ Mauritius	3B8FG	14020	1230Z
■ Nicaragua	YN/SM0OIG	14026	2230Z
■ Saudi Arabia	7Z1AB	28009	1320Z
■ Senegal	6W6JX	21025	2300Z
■ South Shetlands	4K1ADQ	7003	0200Z
■ Sri Lanka	4S7WP	14035	0000Z
■ Sri Lanka	4S7EF	21028	2300Z
■ Sri Lanka	4S7WP	21024	20-2300Z
■ Tadjikistan	UJ8KA	12M	1330Z
■ Zimbabwe	Z21HS	7006	0400Z

Contributors

This Issue of The DX Bulletin would not have been possible without the invaluable assistance of the following: KH6BZF, SESC, 3W3RR, 9M2NA, AA5NN, AA6VZ, AB8K, AF6S, DXNS, K0CVD, K1VWL, K2RH, K4II, K4IQJ, K6LEB, K7ABV, K7JBQ, K8CV, K8OGL, K8OQL, K9UE, KA3B, KA7T, KD7SO, KG4O, KM9J, K0PP, KT7H, N4RJZ, N6HR, N9LAG, NY5L, OH2KI, PA0VDV, VE1RJ, VE1YX, VE7COP, W0JRN, W1AM, W1BFT, W1CNU, W4VQ, W6OSP, W6UQF, W7AWA, W7AYY, W8GE, W9DH, WA2FXB, WA2MZX, WA9GON, WB8SFF, WB9B, WO0G, ZF1RC, and WO6R. Many thanks! -ed.